US-PAT-NO:

6104861

DOCUMENT-IDENTIFIER: US 6104861 A

TITLE:

Encoding and decoding of data streams of multiple types

including video, audio and subtitle data and searching

therefor

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Abstract Text - ABTX (1):

Multiple data stream <u>searching</u> is achieved by encoding a video broadcast into multiple types of data <u>streams including video</u>, audio and subtitle data. Addresses are generated for each of the data streams pointing to a position of the data stream to be stored on a record medium. These addresses are stored in areas of the record medium reserved by type of data stream such that location of any event represented by data in a data stream can be achieved by locating the data streams of the same type as that of the data to be located. A computer-readable memory directs a computer to store these addresses and to decode data streams at these addresses which correspond to the type of data stream to be searched. The data streams which are of the type to be searched are decoded and the event to be searched is found in these decoded data streams.

Application Filing Date - AD (1): 19960718

Brief Summary Text - BSTX (21):

The present invention further provides a decoding apparatus and method which decodes multiple types of data <u>streams such that an event in the video</u> broadcast represented by data in the data streams can be <u>searched by searching</u> data streams of the same type as the data to be <u>searched</u>.

Detailed Description Text - DETX (41):

Any scene in the video image or audible speech can be searched. To that end, the present invention distinguishes between multiple types (such as video, audio and subtitle types) of data streams (such as video, audio or subtitle data). Thus, for example, when a scene is searched, the system controller causes the subtitle decoder to decode only the subtitle data streams describing the video data. Similarly, when a sound is to be located, the system controller causes the subtitle decoder to decode only the subtitle data streams describing the audio data. The system controller operates by determining where the streams of the multiple types of data streams are located on the disk and causing the respective data streams for the type searched to be reproduced and sent to the decoder.

09/15/2003, EAST Version: 1.04.0000

Claims Text - CLTX (5):

wherein an event represented by video or audio data in the data streams can be located by <u>searching</u> the subtitle data <u>streams associated with the</u> respective video or audio data to be located.

Claims Text - CLTX (17):

wherein an event represented by video or audio data in the data streams can be located by <u>searching</u> the subtitle data <u>streams associated with the</u> respective video or audio data to be located.

Claims Text - CLTX (28):

storing said addresses in a predetermined area of said recording medium, wherein an event represented by video or audio data in the data streams can be located by <u>searching</u> the subtitle data <u>streams associated with the respective video</u> or audio data to be located.

Claims Text - CLTX (34):

control means for controlling said decoding means to decode data streams of the subtitle type which are to be displayed exclusively during a **search**, such that any event represented by video or audio data in the data streams is locatable by **searching** the subtitle data **streams associated with the respective video** or audio data to be located.

Claims Text - CLTX (40):

controlling said decoding to decode data streams of the subtitle type which are to be displayed exclusively during a <u>search</u>, such that any event represented by video or audio data in the data streams is locatable by <u>searching</u> the subtitle data <u>streams associated with the respective video</u> or audio data to be located.

09/15/2003, EAST Version: 1.04.0000